

Claims

1. A dual band antenna, wherein a hollow or solid parasitic element is disposed in an inner space of a first member formed by winding a wire material several times or bending a strip material several times to form a predetermined shape and a dielectric material is disposed between the first member and the parasitic element, thus enabling generation of dual resonance of the same frequency band regardless of height of resonance frequencies by inducing variation of impedance resulting from coupling.

2. The dual band antenna as set forth in claim 1, wherein the first member forms a circular shape, or rectangular shape with one side thereof open in a plan view thereof.

3. The dual band antenna as set forth in claim 1, wherein a width of each of the resonance frequencies is adjusted by adjusting a thickness of the parasitic element.

4. The dual band antenna as set forth in claim 1, wherein movement of each of the resonance frequencies is adjusted by adjusting a length of the parasitic element.

5. The dual band antenna as set forth in claim 1, wherein triple resonance as well as dual resonance is formed by adjusting a shape of the parasitic element.